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Title:

PROCESS AND DEVICE FOR MONITORING MISSING AND/OR MULTIPLE SHEETS ;

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ABSTRACT:

The invention relates to a process and a device for monitoring missing and/or multiple sheets on polygraphic machines. The aim of the invention is to provide a process of this kind and a device serving for its execution, by means of which a higher accuracy is obtained and the use of economically advantageous means is made possible. The object of the invention consists in designing the process and the device such that the effects of disturbance factors on the measurement result is compensated for and the use of complicated assemblies with high accuracy is made unnecessary. This object is achieved in that a measurement serving to register disturbance factors and/or the drift of the ultrasonic frequency or ultrasonic phase is carried out, the disturbance factors acting on the measurement result and the measurement values are compared in a comparator circuit and their difference values are formed, missing and/or multiple sheets or paper weights are monitored in an evaluation circuit by phase and amplitude evaluation and the error is eliminated by means of a device serving for the display and/or compensation of the disturbance values.